

# PATENT ABSTRACTS OF JAPAN

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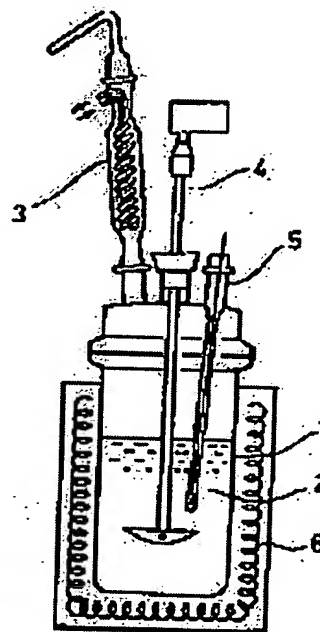
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## (54) TITANIUM OXIDE PARTICULATES AND ITS PRODUCTION

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide titanium oxide particulates having a particle diameter and a specific surface area suitable for sintering and small in aggregation at the time of heating.

**SOLUTION:** This titanium oxide particulates have 0.1–0.5 $\mu$ m average particle diameter and 40–95m<sup>2</sup>/g specific surface area and have a property that the specific surface area becomes 10–30m<sup>2</sup>/g in the case of heating the particulates at 800°C for 30min. The particulates are produced by preparing a mixed solution of titanium tetrachloride and water with a polycarboxylic acid at <50°C, heating to the hydrolyzing temp. of titanium tetrachloride and filtering, drying and heat treating the resultant precipitate. In such a case, the hydrolyzing reaction is executed preferably while suppressing the releasing of generated hydrogen chloride gas by providing a reflux condenser 3.



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